

Course Syllabus

1	Course title	Nursing Informatics	
2	Course number	0711412	
3	Credit hours	3 credit hours (Theory)	
	Contact hours (theory, practical)	48 contact hours (Theory)	
4	Prerequisites/corequisites	None	
5	Program title	B.Sc. in Nursing	
6	Program code	-	
7	Awarding institution	The University of Jordan	
8	School	School of Nursing	
9	Department	Community Health Nursing	
10	Course level	Fourth Year	
11	Year of study and semester (s)	2022-2023 –2 nd Semester	
12	Other department (s) involved in teaching the course	-	
13	Main teaching language	English	
14	Delivery method	<input type="checkbox"/> Face to face learning <input checked="" type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date	2/2023	

17 Course Coordinator:

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Contact hours:	Sun (3-4), Monday (3-4), Tue (3-4)



18 Other instructors:

None

19 Course Description:

This course aims to provide nursing students with necessary concepts to build a computerized information system that will improve the care provided and the optimal utilization of available resources. This course will focus on the identification of the health care cost reduction methods, quality of care, and access to care through automated system.

20 Course aims and outcomes:

A- Aims:

The course aims to introduce students to the basic concepts and principles of computer technology in nursing and utilize the knowledge in clinical, administrative, research, and educational decision making.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs	SLO (1)	SLO (2)	SLO (3)	SLO (4)
SLOs of the course				
1. Demonstrate competency in performing and providing the role of a professional nurse in quality care provision for individuals, families, and groups.	Identify the role of the nurse in handling health care data	Evaluate competence in information system use.		
2. Apply principles of effective communication with peers, individuals,	Recognize what networks are and the major types	Identify the various types of information	List and describe the different components of a	

families, groups, and health care team.	of network configurations	systems used within health care institutions	basic database system	
3. Utilize critical thinking and problem solving in planning and implementing nursing care for individuals, families, and groups.	Describe the impact of computer technology on professional nursing practice.	Differentiate between the nursing process and critical pathways/protocol approaches to the design of nursing systems	Explain the importance of using strategic planning in determining the organization's information needs	Discuss the importance of network integration for health care deliver
4. Apply professional standards, values, and behaviors in providing nursing care for individuals, families, and groups.	Describe ways that computers can support all steps of the research process	Demonstrate ability to understand concepts, principles regarding information technology in nursing.		
5. Demonstrate safety measures to protect self, individuals, families, and groups.	Describe threats to information quality, availability, and confidentiality.			
7. Utilize evidence-based practice in providing care for individuals, families, and groups.	Describe the factors that contribute to effective staff training			

21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
Week 1 26/2-2/3/2023	1.1	– Course Introduction	1.1, 1.2	Blended	In-class	Synchronous Lecturing	--	--
	1.2	– An Overview of Informatics in Healthcare	1.1, 1.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 1 &2
Week 2 5-9/3/2023	2.1	– An Overview of Informatics in Healthcare	1.1, 1.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 1 &2
	2.2	– An Overview of Informatics in Healthcare	1.1, 1.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 1 &2
Week 3 12-16/3/2023	3.1	– Effective and Ethical Use of Data and Information	1.1, 1.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 3
	3.2	– Effective and Ethical Use of Data and Information	1.1, 1.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 3
Week 4 19-23/3/2023	4.1	– Electronic Resources for Healthcare Professionals	3.1, 4.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 4
	4.2	– Electronic Resources for Healthcare Professionals	3.1, 4.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 4
Week 5 26-30/3/2023	5.1	– Using Informatics to Support Evidence-Based Practice and Research	3.1, 4.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 5

	5.2	– Using Informatics to Support Evidence-Based Practice and Research	3.1, 4.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 5
Week 6 2-6/4/2023	6.1	– Electronic Health Record Systems	2.2, 2.3, 3.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 7
	6.2	– Electronic Health Record Systems	2.2, 2.3, 3.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 7
Week 7 9-13/4/2023	7.1	– Healthcare Information Systems	2.2, 2.3, 3.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 8
	7.2	– Healthcare Information Systems	2.2, 2.3, 3.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 8
Week 8 16-20/4/2023	8.1	– Healthcare Information Systems	2.2, 2.3, 3.2	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 8
	8.2	– Healthcare Information Systems	2.2, 2.3, 3.2	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 8
Week 9 23-27/4/2023	9.1	– Improving the Usability of Health Informatics Applications	3.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 10
	9.2	– Improving the Usability of Health Informatics Applications	3.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 10
Week 10 30/4-4/5/2022	10.1	– Electronic Communication and the Internet	2.1, 3.4	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019)
	10.2	– Electronic Communication and the Internet	2.1, 3.4	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019)

Week 11 7-11/5/2023	11.1	– Information Security and Confidentiality	3.1, 4.2, 5.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 13
	11.2	– Information Security and Confidentiality	3.1, 4.2, 5.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 13
Week 12 14-18/5/2023	12.1	– Information Security and Confidentiality	3.1, 4.2, 5.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 13
	12.2	– Information Security and Confidentiality	3.1, 4.2, 5.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 13
Week 13 21-25/5/2023	13.1	– Using Informatics to Educate	3.1, 7.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 17
	13.2	– Using Informatics to Educate	3.1, 7.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 17
Week 14 28/5-1/6/2023	14.1	– Consumer Health Informatics – Connected Healthcare (Telehealth and Technology-Enabled Healthcare)	3.1	Blended	In-class	Synchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 18 & 19
	14.2	– Consumer Health Informatics – Connected Healthcare (Telehealth and Technology-Enabled Healthcare)	3.1	Blended	Moodle	Asynchronous Lecturing	Exams Assignments	Hebda & Czar (2019) – Ch. 18 & 19
Week 15 4-6/6/2023	15.1	Revision		Blended	In-class	Synchronous Lecturing	Exams Assignments	All course materials
Final Exams 8-20/6/2023	Final Exam (40%)							

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Weekly Assignment 1	5%	Effective and Ethical Use of Data and Information	1.1, 1.2	Week 3	e-learning
Weekly Assignment 2	5%	Using Informatics to Support Evidence-Based Practice and Research	3.1, 4.1	Week 5	e-learning
Weekly Assignment 3	5%	Healthcare Information Systems	2.2, 2.3, 3.2	Week 7	e-learning
Midterm Exam	30 %	Weeks 1 - 7	1.1, 1.2, 3.1, 4.1, 4.2, 2.2, 2.3, 3.2	Week 8	In-class exam
Weekly Assignment 4	5%	Electronic Communication and the Internet	2.1, 3.4	Week 10	e-learning
Weekly Assignment 5	5%	Information Security and Confidentiality	3.1, 4.2, 5.1	Week 11	e-learning
Weekly Assignment 6	5%	Using Informatics to Educate	3.1, 7.1	Week 13	e-learning
Final Exam	40%	Weeks 1 - 14	All SLOs	Week 16	In-class exam
Total	100%				

23 Course Requirements

- Each student registered in this course should have a smart device, such as computer, laptop, tablet or smart phone.
- Each student registered in this course should have stable access to the internet
- Attending lectures of the course is mandatory
- All announcements of the course will be posted on the university e-learning website (Moodle)

24 Course Policies:



Please refer to the university policies as published up-to-date in the link below:

<http://units.ju.edu.jo/ar/LegalAffairs/Lists/Regulations/DispForm.aspx?ID=246&ContentTypeId=0x0100C7850F392E786A439F935E088708707E>

25 References:

A- Required book(s), assigned reading and audio-visuals:

- Hebda, T.L., Czar, P. (2019). *Handbook of informatics for nurses and healthcare professional*. 6th ed. Upper saddle River, NJ: Pearson Prentice Hall
- YouTube videos linked in the course's page in e-learning.

B- Recommended books, materials, and media:

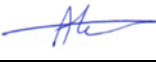

McGonigle, D. & Mastrian, K. (2018). *Nursing Informatics and the Foundation of Knowledge*. (4th ed.). Burlington, Massachusetts: Jones & Bartlett Learning

Saba, V.; McCormick, K. (2021) *Essentials of Nursing Informatics*. 6th ed. McGraw-Hill Education: USA

Hannah, K., Hussey, P., Kennedy, M., Ball, M. (2015). *Introduction to Nursing Informatics* 4th ed. Springer: USA

26 Additional information:

- Instructional and evaluation methods are subject to change according to the University's and/or School's policies during this semester

Name of Course Coordinator: Dr. Ali Saleh	Signature: 	Date: 26/2/2023
Head of Curriculum Committee/Department: -----		Signature: -----
Head of Department: Dr.Mamdouh Alhneiti		Signature: 
Head of Curriculum Committee/Faculty: -----		Signature: -----



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